

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.3 °C
Test Date May.17, 2010

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

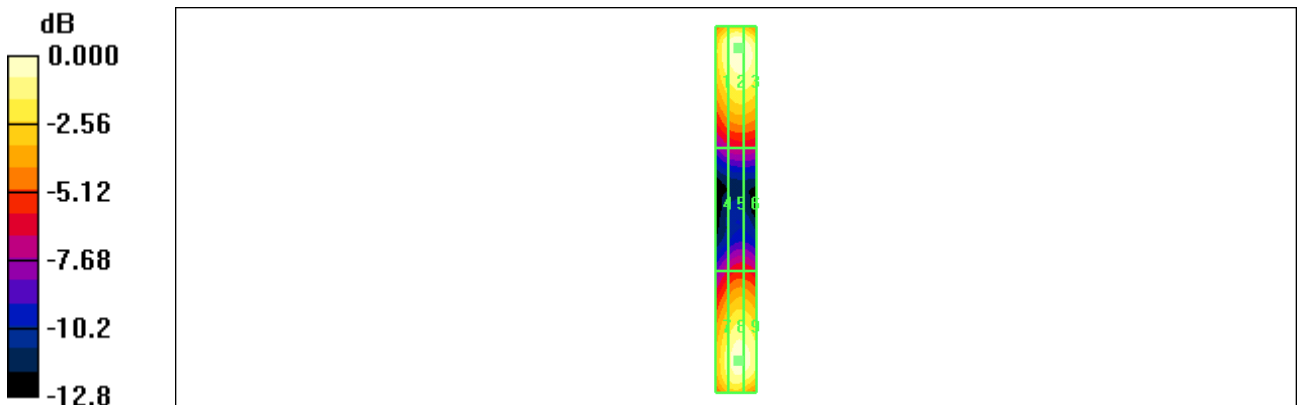
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 167.5 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 129.7 V/m; Power Drift = -0.013 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
157.0 M4	167.5 M4	165.2 M4
Grid 4	Grid 5	Grid 6
77.8 M4	85.0 M4	84.7 M4
Grid 7	Grid 8	Grid 9
148.4 M4	161.6 M4	160.6 M4

Cursor:
Total = 167.5 V/m
E Category: M4
Location: -1, -79, 365.8 mm



0 dB = 167.5V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date May. 14, 2010

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2009-05-22

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 140.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 167.3 V/m; Power Drift = -0.021 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

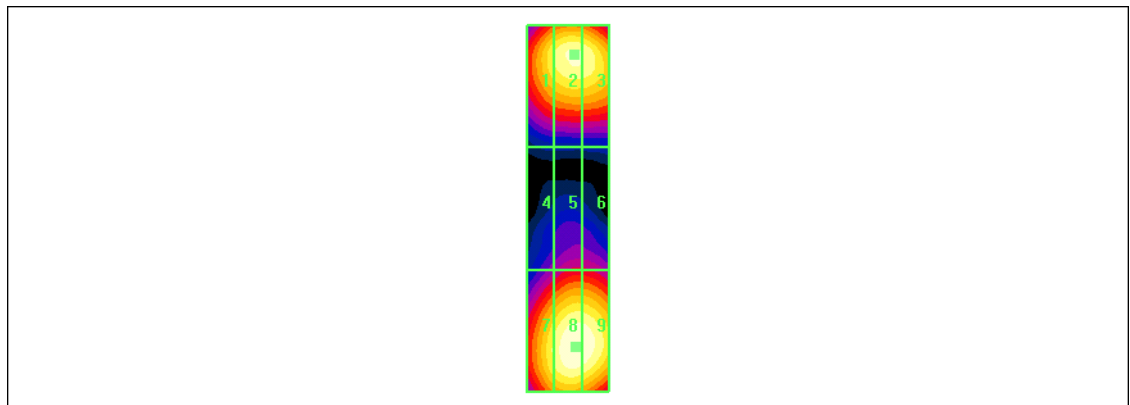
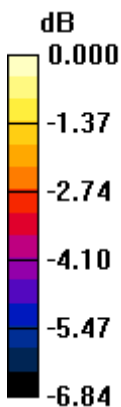
Grid 1	Grid 2	Grid 3
126.8 M2	135.3 M2	133.9 M2
Grid 4	Grid 5	Grid 6
86.6 M3	94.0 M3	94.0 M3
Grid 7	Grid 8	Grid 9
128.6 M2	140.7 M2	139.9 M2

Cursor:

Total = 140.7 V/m

E Category: M2

Location: -2, 34, 365.8 mm



0 dB = 140.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date May. 14, 2010

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.460 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.577 A/m; Power Drift = -0.028 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

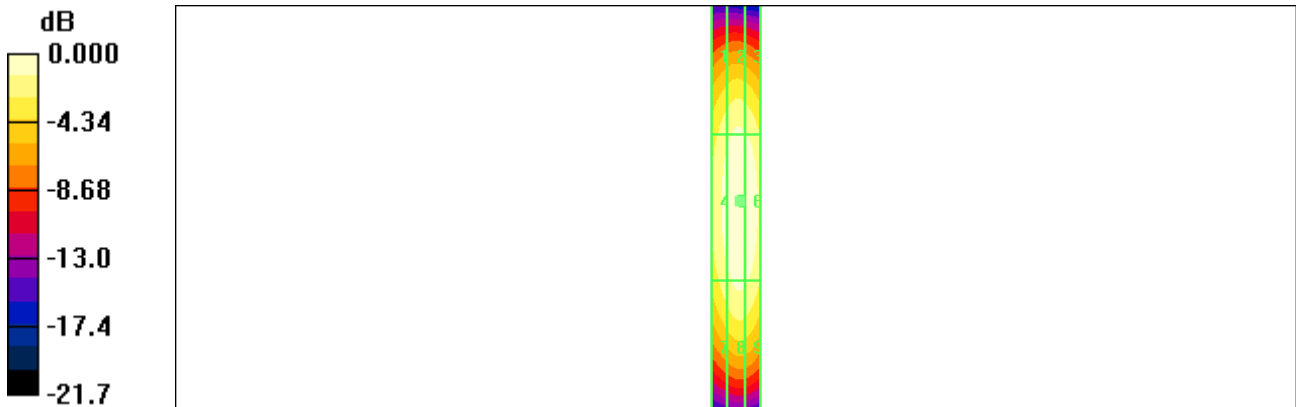
Grid 1	Grid 2	Grid 3
0.374 M4	0.403 M4	0.397 M4
Grid 4	Grid 5	Grid 6
0.422 M4	0.460 M4	0.453 M4
Grid 7	Grid 8	Grid 9
0.372 M4	0.408 M4	0.401 M4

Cursor:

Total = 0.460 A/m

H Category: M4

Location: -1.5, -2.5, 366.6 mm



0 dB = 0.460A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date May. 14, 2010

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.459 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.549 A/m; Power Drift = 0.015 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

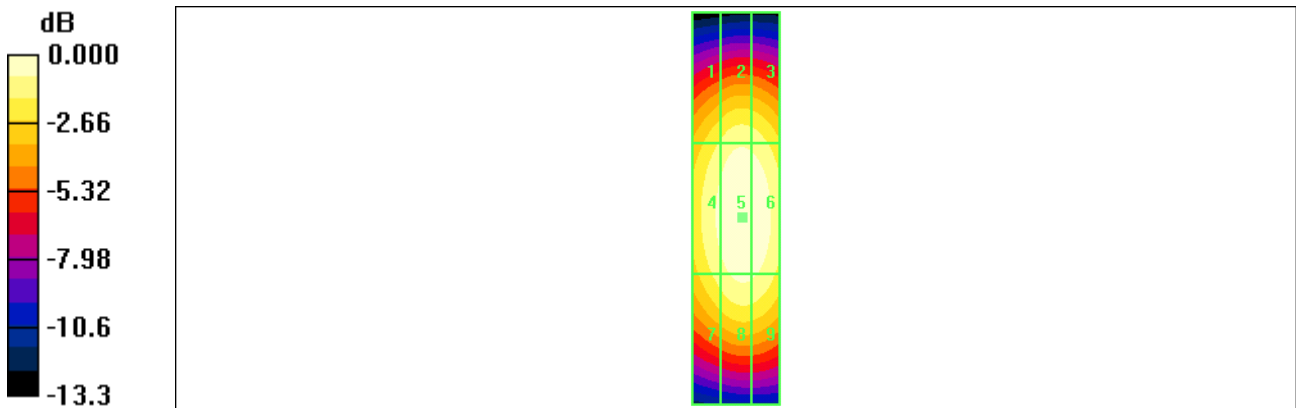
Grid 1	Grid 2	Grid 3
0.379 M2	0.408 M2	0.403 M2
Grid 4	Grid 5	Grid 6
0.427 M2	0.459 M2	0.454 M2
Grid 7	Grid 8	Grid 9
0.395 M2	0.426 M2	0.422 M2

Cursor:

Total = 0.459 A/m

H Category: M2

Location: -1.5, 2, 366.6 mm



0 dB = 0.459A/m